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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/941,816	08/29/2001	Masahiro Kitamura	15162/03920	7577
24367	7590 09/22/2004	1	EXAM	INER
	JSTIN BROWN & WO	AGGARWAL, YOGESH K		
717 NORTH HARWOOD SUITE 3400 DALLAS, TX 75201			ART UNIT	PAPER NUMBER
			2615	7
			DATE MAILED: 09/22/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Amplicant/a)				
	Application No.	Applicant(s)				
Office Andieus Communes	09/941,816	KITAMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Yogesh K Aggarwal	2615				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above, is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a retion. In a reply within the statutory minimum of third period will apply and will expire SIX (6) MON by statute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	1 .					
2a) This action is FINAL . 2b) ∑						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are w 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-16 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Ex 10) ☑ The drawing(s) filed on 29 August 2001 is Applicant may not request that any objection Replacement drawing sheet(s) including the 11) ☐ The oath or declaration is objected to by	s/are: a)⊠ accepted or b)⊡ ob to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International It * See the attached detailed Office action for the priority document of the priority document of the certified copies of the application from the International It * See the attached detailed Office action for the priority document of the priority document	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO-Paper No(s)/Mail Date 6, 02/01/2002. 	48) Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4, 5, 9, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Watanabe (US Patent # 5,764,611).

 [Claims 1 and 9]

Applicant's admitted prior art teaches an image processing apparatus comprising a synthesizer for generating a blur controlled image with an adjusted blur amount from multiple images having different focal lengths (Paragraph 5) and an image processor for performing a process other than blur control on the blur-controlled image generated by the synthesizer (Paragraph 6). Applicant's admitted prior art fails to teach a changer for changing a degree of the process other than blur control in accordance with the amount of blur. However Watanabe teaches a high frequency emphasis circuit (figure 1, element 22) in which high frequencies are emphasized in correspondence with the blur amount (col. 17 lines 35-44). Therefore taking the combined teachings of Applicant's admitted prior art and Watanabe, it would have been obvious to one skilled in the art at the time of the invention to have been motivated to have a changer i.e. high frequency emphasis circuit (figure 1, element 22) in which high frequencies are emphasized in correspondence with the blur amount in order to remove the low frequencies and emphasize the higher frequencies.

[Claims 4, 5, 12, 13]

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Applicant's admitted prior art teaches that the processor used is a coring processor (Paragraph 8). Watanabe teaches a high frequency emphasis circuit (figure 1, element 22) in which high frequencies are emphasized (low frequencies are removed) in correspondence with the blur amount (col. 17 lines 35-44) so that the high frequencies will be emphasized (low frequencies are removed) more, as the blur amount will be increased.

3. Claims 2, 3, 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art, Watanabe (US Patent # 5,764,611) and in further view of Ikeda (US Patent # 6,421,087).

[Claims 2,3, 10, 11]

Applicant's admitted prior art in view of Watanabe teaches that the processor is an image compressor (Paragraph 6) but fails to teach wherein said changer changes the image compression ratio such that the image compression ratio increases as the amount of blur increases. However Ikeda teaches that it is possible to increase the compression factor for chrominance generated through blurring of an image and having a narrow bandwidth (col. 13 lines 41-61) in order to reduce color moiré. Therefore taking the combined teachings of Applicant's admitted prior art, Watanabe and Ikeda, it would have been obvious to one skilled in the art at the time of the invention to have been motivated to have a changer changes the image compression ratio such that the image compression ratio increases as the amount of blur increases. The benefit of doing so would be to have a synthesized image of high quality and high definition as taught in Ikeda (col. 13 lines 59-61).

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4. Claims 6, 7, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art, Watanabe (US Patent # 5,764,611) and in further view of Hata (US Patent # 6,603,508).

[Claims 6, 7, 14,15]

Applicant's admitted prior art in view of Watanabe teaches that the processor is an aperture controller (Paragraph 8) but fails to teach wherein said changer changes the amplification ratio such that the amplification increases as the amount of blur increases. However Hata teaches that the CPU increases the gain of the VG amplifier 105 during the blur-avoiding mode in order to determine an optimum exposure (col. 9 lines 61-67, col. 10 lines 1-5). Therefore taking the combined teachings of Applicant's admitted prior art, Watanabe and Hata, it would have been obvious to one skilled in the art at the time of the invention to have been motivated to have a changer that changes the amplification ratio such that the amplification increases as the amount of blur increases. The benefit of doing so would be that the blurring during taking of the photograph is avoided.

5. Claims 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art, Watanabe (US Patent # 5,764,611) and in further view of Miyawaki et al. (US Patent # 6,522,360).

[Claims 8 and 16]

Applicant's admitted prior art in view of Watanabe fail to teach wherein the processor is a gamma corrector and said changer changes a value of gamma correction by the gamma corrector in accordance with the amount of blur. However Miyawaki et al. teaches a gamma corrector (figure 1, element 53) which changes a value of gamma correction after the TV-AF circuit 54

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indicates the amount of blur in the image (col. 1 lines 36-67, col. 2 lines 1-5) in order to change gamma correction with the amount of blur indicated by the TV-AF circuit. Therefore taking the combined teachings of Applicant's admitted prior art, Watanabe and Miyawaki, it would have been obvious to one skilled in the art at the time of the invention to have been motivated to have a gamma corrector and a changer that changes a value of gamma correction by the gamma corrector in accordance with the amount of blur. The benefit of doing so that the user in accordance with can use a fixed area for gamma correction am amount of blur.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yogesh K Aggarwal whose telephone number is (703) 305-0346. The examiner can normally be reached on M-F 9:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Christensen can be reached on (703) 308-9644. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 8, 2004

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TUAN HO
PRIMARY EXAMINER